

Rabbit Kindle Box

Name: _____

Date: _____

Description:

The project is a rabbit kindle box for birthing mothers. It is designed to keep the baby bunnies in and allow the mother to move into and out of freely. The project will focus on measuring, cutting, squaring, fastening, and gluing. We will be using hand and power tools. We will be reviewing safety and focusing on working efficiently.

Materials:

- 1x8 pine cut to 42"
- 1x6 pine cut to 8 $\frac{3}{4}$ "
- 4d x 1 $\frac{1}{2}$ " nails
- 3d x 1 $\frac{1}{4}$ " nails
- $\frac{1}{4}$ " welded wire mesh
- wood glue

Tools:

- compound mitre saw
- cross cut saw
- tape measure
- speed square or combination square
- hammer
- bar or wood clamps
- band saw
- staple gun

Directions:

Before you Start!

- Put on your safety glasses
- Read all directions and study the plans

1. Gather it

Gather the necessary material. Each student will need a piece of 1x8 #2 pine that is cut to 42" and a piece of 1x6 #2 pine cut to 8 $\frac{3}{4}$ ".

2. MEASURE IT

Cut your board to the proper dimensions. Mark your board using a tape measure and **speed square**. Be sure to cut to the outside of your line!

The 1x8 pine needs to be cut down to the following dimensions:

- two boards cut to 14 $\frac{1}{2}$ ", one at 6 $\frac{3}{4}$ ", and one at 4"
- the 1x6 needs to be 8 $\frac{3}{4}$ "

Adjust the mitre saw to the proper angle (zero degrees). Place pine board on mitre saw table making sure the wood is pushed up against the fence. Always cut to the outside of your line so that the **kerf** will not cut into the part of the workpiece you are keeping.

3. Cut Angles

You need to cut angles off of the 14 $\frac{1}{2}$ " boards. On the short side of the board mark 4" up from the bottom. On the long side of the board mark 5 $\frac{1}{2}$ " from the end; connect your marks with a straight line. See diagram.

- Clamp the board to the corner of a table using bar clamps.
- Cut the board using a crosscut saw. (Be sure to cut outside the line, you can always sand down the board later.)

4. Assemble the Box

Now that all pieces are cut assemble the box. You will need a hammer, fourteen 4d x 1 $\frac{1}{2}$ " finishing nails, and wood glue.

- Assemble the box as shown in the diagram.
- Be sure to only use a very thin line of glue per joint.
- Keep nails in line and equal distance in from edges.

5. Attach Bottom Screen

Gather a staple gun, tin snips, welded wire mesh and ten 3d x 1 $\frac{1}{4}$ " nails. Using tin snips you will need to cut a piece of the welded wire mesh in a rectangle that measures 8 $\frac{3}{4}$ " x 14 $\frac{1}{2}$ ". This will be the bottom of the box.

Now go to the bands saw and rip two pieces of pine 1/4" wide from the board that is precut to 12 $\frac{7}{8}$ " long and two more from the board that is 8 $\frac{3}{4}$ " long.

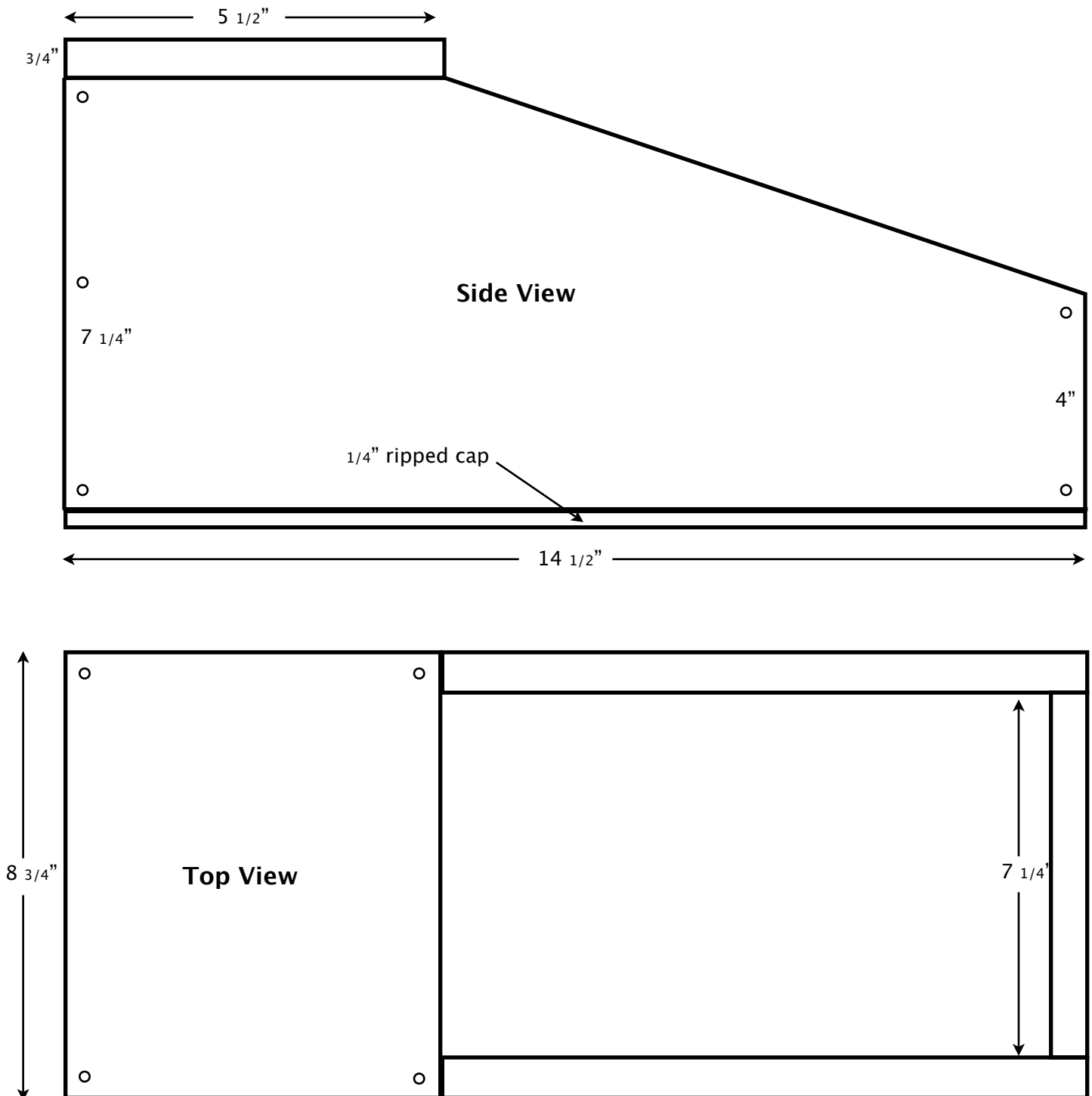
- Attach the wire to the bottom of the box with the staple gun.
- Hammer staples in flat.
- Attach the 1/4" pieces of pine over the wire by nailing them in. Four nails on the long sides, three on the short.

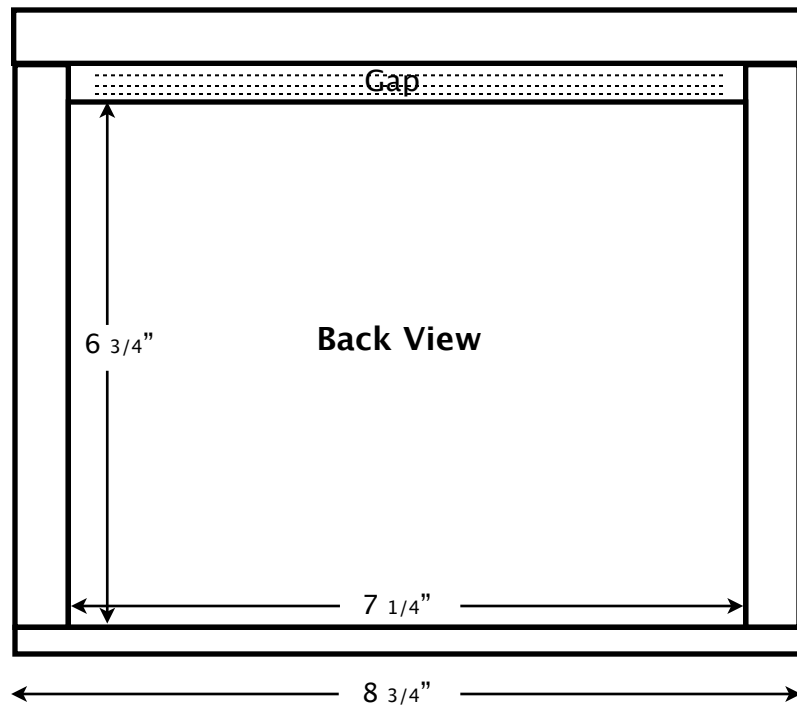
6. Sanding and Finishing

Hammer all nails in flush with wood and then sand down all edges so there are no sharp lines or points.

Notes:

Drawing/Photo:





Rabbit Kindle Box Student Worksheet:

Name: _____

Date: _____

Complete this worksheet prior to starting the project.

1. What size and type of wood is used for this project?

2. Draw a sketch of the project and label the dimensions.

3. The wood purchased for the project was 1 x 8. What were the true measured dimensions of the board? _____

4. Why do we use glue at all connections made with nails?

5. What tools are required to complete this project?

6. DEFINE THE FOLLOWING:

Kerf--

Crosscut--

Rip--

Grading Rubric:

Criteria (+/- 1/8")	Possible	Score
Length	10	
Width	10	
Hole location	10	
Squareness	10	
General Workmanship (Clean edges, sanded smooth, clean use of paint or stain)	10	
TOTAL	50	